

**Development of All Solid State Supercapacitors Delivering  
High Power Density using Carbon Derived from *P. juliflora*  
versus Pure and Transition Elements Doped Zinc cobaltite**

By

**G.G. Soundarya**

**(Reg. No. 17PHPHF002)**

Supervisor

**Dr. B. Nalini**

Department of Physics

A Thesis Submitted to

Avinashilingam Institute for Home Science and Higher Education for Women,

Coimbatore - 641 043

In Partial Fulfilment of the Requirements for the Degree of

**Doctor of Philosophy in Physics**

**January - 2022**